

OIRE #9
7/19/2001Serial Number: 09/421,971**ENTERED**

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

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JUL 31 2001

Deleted extra, invalid, headings used by an applicant, specifically:

TECH CENTER 1600/2900

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/421,971

DATE: 07/19/2001
TIME: 11:13:01

Input Set : A:\Pto.amc
Output Set: N:\CRF3\07192001\I421971.raw

3 <110> APPLICANT: GAGE, Fred
 4 SUHR, Steven
 5 GIL, Elad
 6 SENUT, Marie-Claude
 8 <120> TITLE OF INVENTION: HORMONE RECEPTOR FUNCTIONAL DIMERS AND METHODS OF THEIR USE
 10 <130> FILE REFERENCE: SALK2350
 12 <140> CURRENT APPLICATION NUMBER: US 09/421,971
 13 <141> CURRENT FILING DATE: 1999-10-20
 15 <160> NUMBER OF SEQ ID NOS: 75
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 67
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <221> NAME/KEY: misc_feature
 26 <223> OTHER INFORMATION: Binding domain of the steroid/thyroid hormone superfamily
 27 of receptor
 29 <220> FEATURE:
 30 <221> NAME/KEY: VARIANT
 31 <222> LOCATION: (1)..(67)
 32 <223> OTHER INFORMATION: Xaa is any amino acid
 34 <400> SEQUENCE: 1
 W--> 37 Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa
 38 1 5 10 15
 W--> 40 Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa
 41 20 25 30
 W--> 43 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Lys
 44 35 40 45
 W--> 46 Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa Lys Cys Xaa Xaa
 47 50 55 60
 W--> 49 Xaa Gly Met
 50 65
 53 <210> SEQ ID NO: 2
 54 <211> LENGTH: 5
 55 <212> TYPE: PRT
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <221> NAME/KEY: misc_feature
 60 <223> OTHER INFORMATION: Chimeric protein linker
 62 <400> SEQUENCE: 2
 65 Gly Gly Gly Ser
 66 1 5
 69 <210> SEQ ID NO: 3
 70 <211> LENGTH: 10
 71 <212> TYPE: PRT
 72 <213> ORGANISM: Artificial Sequence

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Input Set : A:\Pto.amc
Output Set: N:\CRF3\07192001\I421971.raw

74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <223> OTHER INFORMATION: Chimeric protein linker
78 <400> SEQUENCE: 3
81 Gly Gly Gly Gly Ser Gly Gly Gly Ser
82 1 5 10
85 <210> SEQ ID NO: 4
86 <211> LENGTH: 12
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <221> NAME/KEY: misc_feature
92 <223> OTHER INFORMATION: Chimeric protein linker
94 <400> SEQUENCE: 4
97 Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser
98 1 5 10
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 14
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <223> OTHER INFORMATION: Chimeric protein linker
110 <400> SEQUENCE: 5
113 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
114 1 5 10
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 18
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <223> OTHER INFORMATION: Chimeric protein linker
126 <400> SEQUENCE: 6
129 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr
130 1 5 10 15
132 Lys Gly
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 14
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <223> OTHER INFORMATION: Chimeric protein linker
145 <400> SEQUENCE: 7
148 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
149 1 5 10
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 18

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Input Set : A:\Pto.amc
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154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <223> OTHER INFORMATION: Chimeric protein linker
161 <400> SEQUENCE: 8
164 Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
165 1 5 10 15
167 Lys Gly
171 <210> SEQ ID NO: 9
172 <211> LENGTH: 14
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <223> OTHER INFORMATION: Chimeric protein linker
180 <400> SEQUENCE: 9
183 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe
184 1 5 10
187 <210> SEQ ID NO: 10
188 <211> LENGTH: 5
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <221> NAME/KEY: misc_feature
194 <223> OTHER INFORMATION: Chimeric protein linker
196 <400> SEQUENCE: 10
199 Ser Arg Ser Ser Gly
200 1 5
203 <210> SEQ ID NO: 11
204 <211> LENGTH: 5
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <221> NAME/KEY: misc_feature
210 <223> OTHER INFORMATION: Chimeric protein linker
212 <400> SEQUENCE: 11
215 Ser Gly Ser Ser Cys
216 1 5
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 28
221 <212> TYPE: PRT
222 <213> ORGANISM: Diphtheria toxin
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: Trypsin sensitive linker
228 <400> SEQUENCE: 12
231 Ala Met Gly Arg Ser Gly Gly Cys Ala Gly Asn Arg Val Gly Ser
232 1 5 10 15

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Input Set : A:\Pto.amc
Output Set: N:\CRF3\07192001\I421971.raw

234 Ser Leu Ser Cys Gly Gly Leu Asn Leu Gln Ala Met
235 20 25
238 <210> SEQ ID NO: 13
239 <211> LENGTH: 7
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <223> OTHER INFORMATION: Chimeric protein linker
247 <400> SEQUENCE: 13
250 Ala Met Gly Gly Ser Ala Met
251 1 5
254 <210> SEQ ID NO: 14
255 <211> LENGTH: 13
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <223> OTHER INFORMATION: Nucleotide encoding SfiI recognition site
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (5)..(9)
266 <223> OTHER INFORMATION: n is either g, t, c, or a
268 <400> SEQUENCE: 14
W--> 270 ggccnnnnnng gcc 13
275 <210> SEQ ID NO: 15
276 <211> LENGTH: 12
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <223> OTHER INFORMATION: Chimeric protein linker
284 <400> SEQUENCE: 15
287 Gly Pro Gly Gly Ser Gly Gly Ser Gly Thr
288 1 5 10
291 <210> SEQ ID NO: 16
292 <211> LENGTH: 17
293 <212> TYPE: PRT
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <221> NAME/KEY: misc_feature
298 <223> OTHER INFORMATION: GAL4 response element
300 <400> SEQUENCE: 16
303 Cys Gly Gly Ala Gly Gly Ala Cys Thr Gly Thr Cys Cys Thr Cys Cys
304 1 5 10 15
306 Gly
310 <210> SEQ ID NO: 17
311 <211> LENGTH: 12
312 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/421,971

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Input Set : A:\Pto.amc
Output Set: N:\CRF3\07192001\I421971.raw

313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <223> OTHER INFORMATION: SfiI compatible oligonucleotide
319 <400> SEQUENCE: 17
322 Gly Pro Gly Gly Ser Gly Gly Ser Gly Thr
323 1 5 10
326 <210> SEQ ID NO: 18
327 <211> LENGTH: 41
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <221> NAME/KEY: misc_feature
333 <223> OTHER INFORMATION: hRXR N-terminal SfiI primer 5'
335 <400> SEQUENCE: 18
337 gtagaattcg gccaaacaggg cccatggaca ccaaacattt c 41
341 <210> SEQ ID NO: 19
342 <211> LENGTH: 20
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <223> OTHER INFORMATION: hRXR N-terminal SfiI primer 3'
350 <400> SEQUENCE: 19
352 gatgggggag ctcagggtgc 20
356 <210> SEQ ID NO: 20
357 <211> LENGTH: 22
358 <212> TYPE: DNA
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <221> NAME/KEY: misc_feature
363 <223> OTHER INFORMATION: hRXR C-terminal SfiI primer 5'
365 <400> SEQUENCE: 20
367 ggagagctcg aggctactg ca 22
371 <210> SEQ ID NO: 21
372 <211> LENGTH: 39
373 <212> TYPE: DNA
374 <213> ORGANISM: Artificial Sequence
376 <220> FEATURE:
377 <221> NAME/KEY: misc_feature
378 <223> OTHER INFORMATION: hRXR C-terminal SfiI primer 3'
380 <400> SEQUENCE: 21
382 accatcgatt cagggccctg ttggcccggtg cggcgctc 39
386 <210> SEQ ID NO: 22
387 <211> LENGTH: 41
388 <212> TYPE: DNA
389 <213> ORGANISM: Artificial Sequence
391 <220> FEATURE:
392 <221> NAME/KEY: misc_feature

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/421,971

DATE: 07/19/2001
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Input Set : A:\Pto.amc
Output Set: N:\CRF3\07192001\I421971.raw

L:37 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14